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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
08/484,928		06/07/1995	GARY K. MICHELSON	P-12509	5055		
22882	7590	12/08/2003		EXAMINER			
MARTIN &		ARO, LLP STREET, NE		REIP, DAVID OWEN			
HARTVILL		•		ART UNIT	ART UNIT PAPER NUMBER		
				3731	43		

DATE MAILED: 12/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	08/484,928	MICHELSON, GARY K.	
Office Action Summary	Examiner	Art Unit	
	David O. Reip	3731	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	I36(a). In no event, however, may by within the statutory minimum of the will apply and will expire SIX (6) Mo c, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	ation.
1) Responsive to communication(s) filed on 25 A	August 2003.		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under I			s is
Disposition of Claims			
4) ☐ Claim(s) See Continuation Sheet is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) See Continuation Sheet is/are allowe 6) ☐ Claim(s) 301-303,305-308,330-332 and 334-3 7) ☐ Claim(s) 304 and 333 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subject to restriction are are are	wn from consideration. d. 36 is/are rejected.		
Application Papers			
9) The specification is objected to by the Examine		a by the Everniner	
10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the		•	
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	• ,	?1(d).
11) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the firm 37 CFR 1.78. a) The translation of the foreign language profits the priority of the foreign language profits action for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for document is made o	ts have been received. Its have been received in introduced in its priority under 35 U.S.C is sentence of the specification in its priority under 35 U.S.C is priority under 35 U.S.C is priority under 35 U.S.C	Application No In received in this National Stage of received. C. § 119(e) (to a provisional application or in an Application Data Stage) been received. C. §§ 120 and/or 121 since a spec	Sheet. cific
Attachment(s) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413) Paper No(s).	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) 🔲 Notice of	Informal Patent Application (PTO-152)	_•

Continuation Sheet (PTOL-326)

Application No. 08/484,928

Continuation of Disposition of Claims: Claims pending in the application are 173-199,201-228,231-233,235-252,255-272,275-277,279-293,295-310,313-315,317-320 and 323-369.

Continuation of Disposition of Claims: Claims allowed are 173-199,201-229,231-233,235-252,255-272,275-277,279-293,295-300,309,310,313-315,317-320,323 and 337-369.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 301-303, 305-308, 330-332, and 334-336 are rejected under 35 U.S.C. 102(b) as being anticipated by Mittelmeier et al (EP 0526682 A1). Figs. 14 and 15 of Mittelmeier et al show embodiments of non-threaded spinal fusion implants having all the limitations as recited in claims 301-303, 305-308, 330-332, and 334-336, including: bodies 36 or 39 formed of a metal mesh sheet material that is rolled and sintered for rigidity so as to be capable of serving as a vertebral body replacement, and thus is also capable of supporting two adjacent vertebral bodies in a spaced apart relationship; openings in the mesh permitting the growth of bone through the implant; surface "roughenings" 37 for engaging adjacent vertebral bodies; and fusion promoting material including hydroxyl apatite. Note that with respect to claim 330, the limitation "being formed of a cancellous material" is met in Mittelmeier et al, since the definition of cancellous is "having a course net-like or spongy structure." The metal mesh of Mittelmeier et al can be readily seen as comprising a course net-like structure. Note also that the cited reference was filed Aug 7, 1991 and published Feb 10, 1993, and is thus a proper 102(b) reference. The corresponding U.S. Patent 5,397,359 should be referred to for an English language version of the original German disclosure.

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Allowable Subject Matter

Claims 173-199, 201-228, 231-233, 235-252, 255-272, 275-277, 279-293, 295-300, 309, 310, 313-315, 317-320, 323-329, and 337-369 are allowed.

Claims 304 and 333 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David O. Reip at (703) 308-3383. The examiner can normally be reached Mon-Thu and every other Fri from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Milano, can be reached at (703) 308-2496. The official fax number for this Technology Center is (703) 872-9306. The examiner can also receive unofficial direct-to-computer faxes at 703-746-3310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at (703) 308-0858.

David O. Reip

Primary Examiner December 1, 2003